

HAZARDOUS CARGO ORIENTATION

UMODA04
TBOLC 500-500-18
MWOBC 882X1A10

References

FM 4-01.011, Unit Movement Operations

Code of Federal Regulations - 49 - Transportation
(Parts 100 to 185)

TM 38-250, *Preparing Hazardous Materials for Military Shipments*

International Air Transport Association - Dangerous Goods Regulation (IATA DGR)

International Maritime Dangerous Goods Code (IMDGC)

Current Emergency Response Guide 2004

Hazardous Material Definition

“A substance or material which has been determined by the Secretary of Transportation to be capable of posing an unreasonable risk to health, safety and property when transported in commerce...The term includes hazardous substances, hazardous wastes, marine pollutants...”

Title 49, Code of Federal Regulations

Definition of a HAZMAT Employee

- A hazardous materials employee is any person “...who directly affects hazardous materials transportation safety...
 - Loads, unloads, or handles hazardous material;
 - Prepares hazardous materials for transportation;
 - Is responsible for the safety of transporting hazardous materials; or

Definition of a HAZMAT Employee (Cont)

- Operates a vehicle used to transport hazardous materials.”
- What does this mean to you as UMO and to personnel in your unit? Any one who handles, packages or ships any hazardous material is considered an employee.

Title 49, Code of Federal Regulations

Definition of a HAZMAT Employer

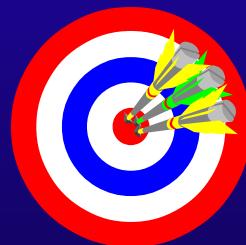
- A hazardous materials employer is defined as “a person who uses one or more of his employees in connection with:
 - Transporting hazardous materials ... Causing them to be transported or shipped in commerce...
 - This term includes any department, agency ... of the United States.”

Definition of a HAZMAT Employer (Cont)

- You, as the UMO, become an “employer” when you direct troops to load out a vehicle or container containing HAZMAT.
- Make sure you know what unit personnel must do to correctly handle, package and certify HAZMAT.

HAZMAT Awareness

- The minimal level of training established by DOT requires HAZMAT employees to:
 - Recognize & identify hazardous materials shipments
 - Understand the numeric hazard class numbering system
 - Understand the hazards presented by the nine United Nations (UN) hazard classes & their subdivisions



HAZMAT Awareness (Con't)

- Although the UMO can not be the HAZMAT certifier, the UMO must be aware of dangerous or potentially dangerous materials the unit is handling, shipping or storing as simple as a variety of consumer commodities could be potentially dangerous.
Many “off the shelf” items from WD-40 to aftershave are classified by DOT as “Hazardous Materials”

Penalties for Non- Compliance --

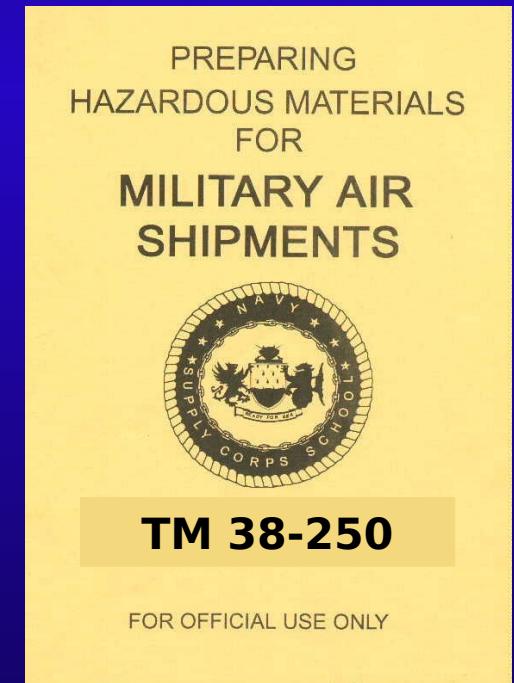
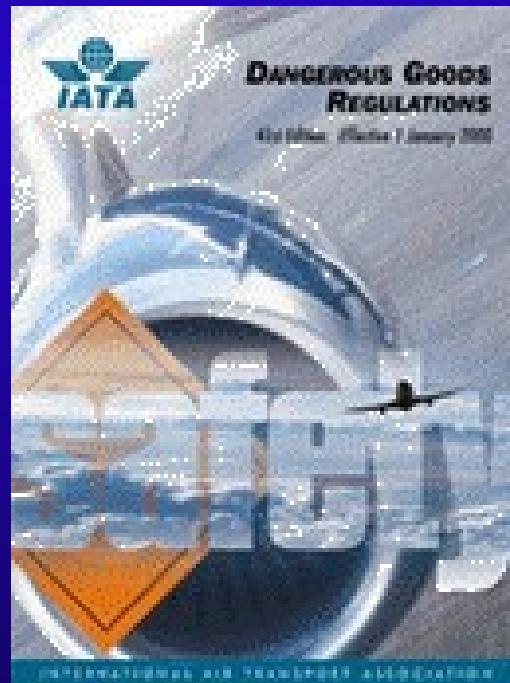
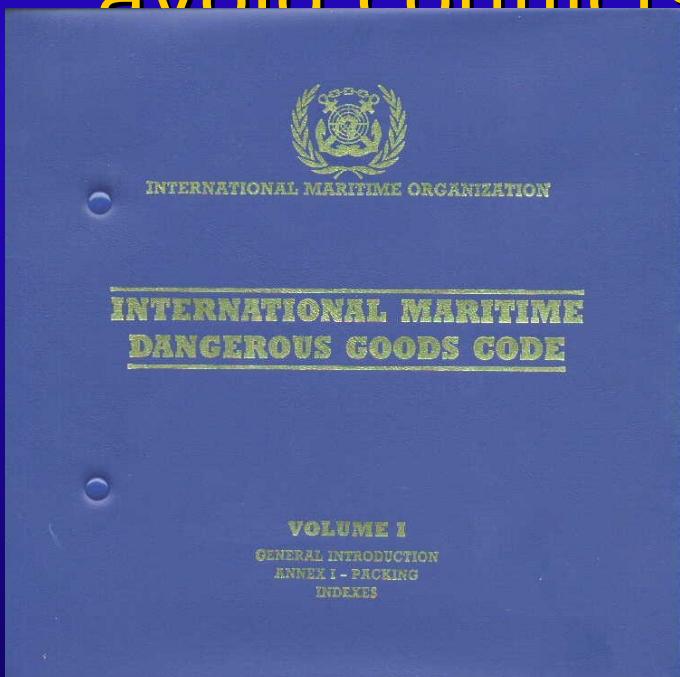
- “Knowingly” violating the regulations
 - Civil
Making an “honest” mistake, i.e. failing to know something that should have been known, or failing to catch the error even if known
For example, one shipment has an incorrect label
- Fine: \$275 to \$50,000 dollars per day per every error or violation (para 107.329)

Penalties for Non- Compliance -- Criminal

- “Willfully” violating the regulations
 - Making a conscious decision not to follow the rules
 - + Example: Deliberately concealing or mis-declaring a shipment of hazardous material
- This is a ~~hazardous material~~ felony offense & could result in fines applicable under title 18 USC or up to 5 years in prison or Both (para 107.333)

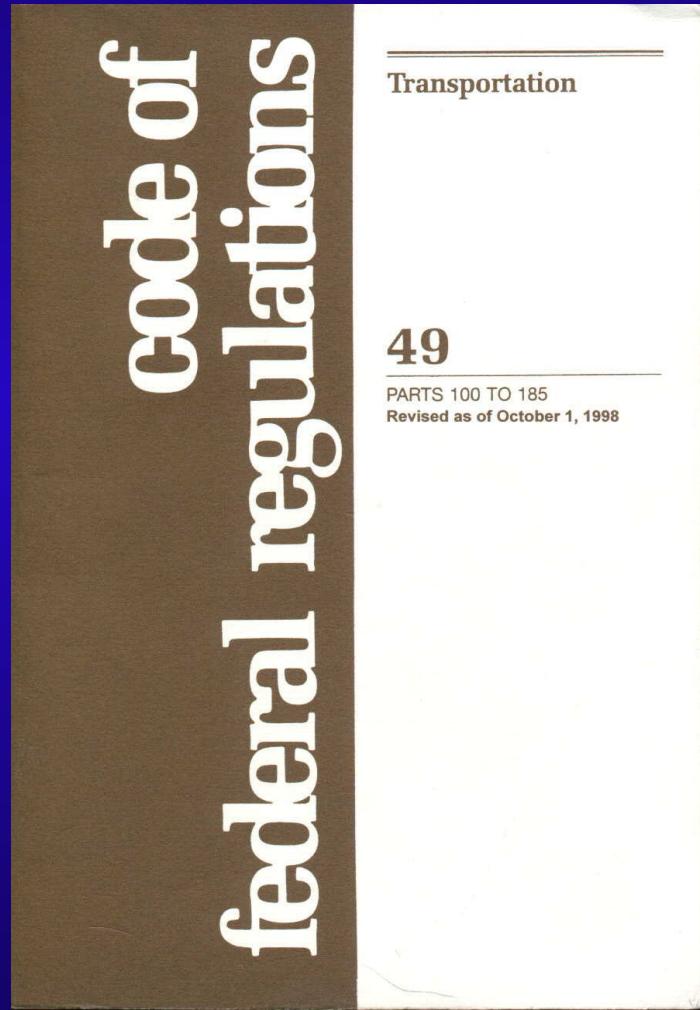
Regulation Conflicts

- Always consult regulation for specific mode of transportation to be used to avoid conflicts



49 CFR

- Code of Federal Regulations for the transportation of hazardous material
- This publication is commonly referred as CFR 49



49 CFR -- Hazardous Material Table

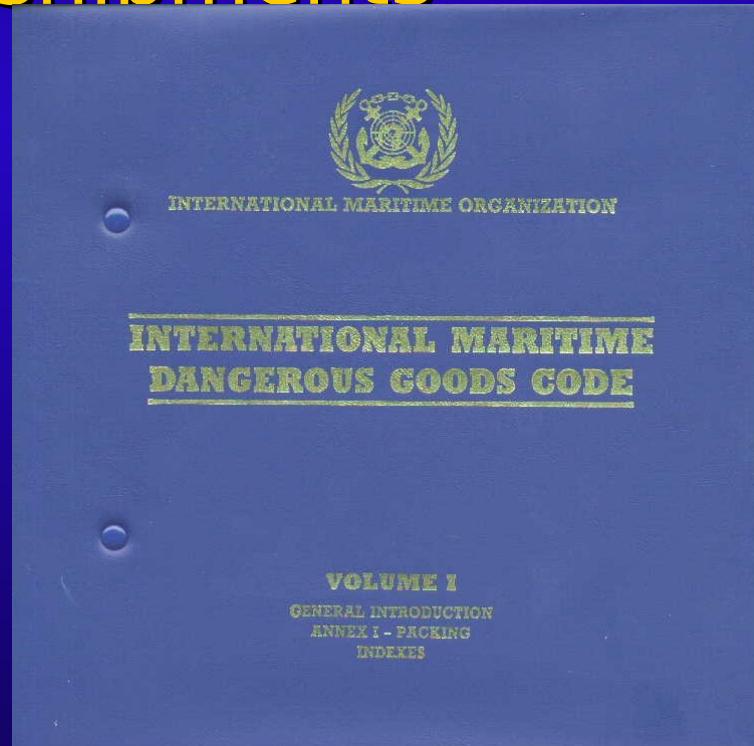
§ 172.101 HAZARDOUS MATERIALS TABLE

| Symbols | Hazardous materials descriptions and proper shipping names | Hazard class or Division | Identification Numbers | PG | Label Codes | Special provisions | (8) Packaging (§173.***) | | | (9) Quantity limitations | | (10) Vessel stowage | |
|---------|--|--------------------------|------------------------|-----|-------------|--------------------|--------------------------|------------|-----------|--------------------------|---------------------|---------------------|-------|
| | | | | | | | Exceptions | Non-bulk | Bulk | Passenger aircraft/rail | Cargo aircraft only | Location | Other |
| | | | | | | | (8A) | (8B) | (8C) | (9A) | (9B) | (10A) | (10B) |
| D | Accellerene, see p-Nitrosodimethylaniline. Accumulators, electric, see Batteries, wet etc. Accumulators, pressurized, pneumatic or hydraulic (containing non-flammable gas). | 2.2 | NA1956 | | 2.2 | | | | | | | | |
| A | Acetal Acetaldehyde | 3 | UN1088 | II | 3 | | T7 | 150 | 202 | 242 | 5 L | 60 L | E |
| | | 3 | UN1089 | I | 3 | | A3, B16, T20, T26, T29 | None | 201 | 243 | Forbidden | 30 L | E |
| | Acetaldehyde ammonia | 9 | UN1841 | III | 9 | | | 155 | 204 | 240 | 200 kg | 200 kg | A |
| | Acetaldehyde oxime | 3 | UN2332 | III | 3 | | B1, T8 | 150 | 203 | 242 | 60 L | 220 L | A |
| | Acetic acid, glacial or Acetic acid solution, with more than 80 percent acid, by mass. | 8 | UN2789 | II | 8, 3 | | A3, A6, A7, A10 B2, T8 | 154 | 202 | 243 | 1 L | 30 L | A |
| | Acetic acid solution, not less than 50 percent but not more than 80 percent acid, by mass. | 8 | UN2790 | II | 8 | | A3, A6, A7, A10, B2, T8 | 154 | 202 | 242 | 1 L | 30 L | A |
| | Acetic acid solution, with more than 10 percent and less than | 8 | UN2790 | III | 8 | | T8 | 154 | 203 | 242 | 5 L | 60 L | A |

34

International Maritime Dangerous Goods Code (IMDG)

- Regulates International HAZMAT water shipments



GENERAL INDEX

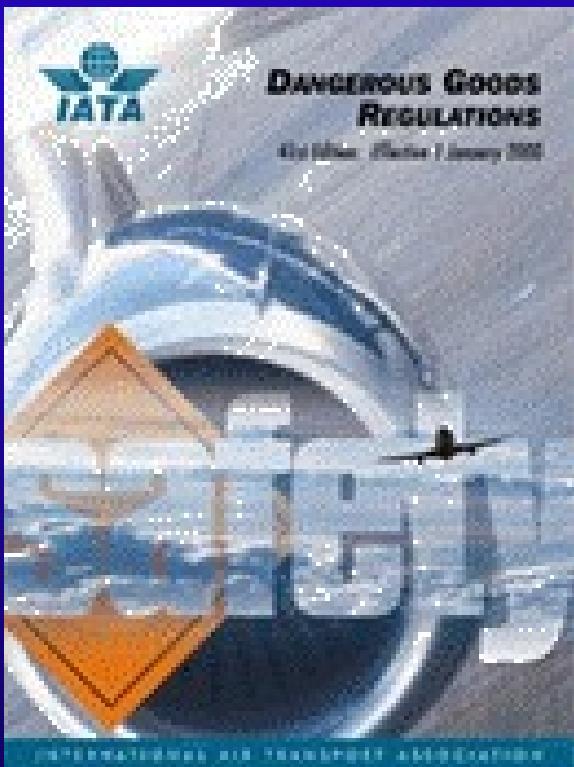
| SUBSTANCE or ARTICLE | IMDG CODE PAGE | UN No. | CLASS | Pack- aging Group | Subsidiary Risk Label(s) | EmS No. | MFAG Table No. |
|--|----------------------|--------------|------------|-------------------------|--------------------------------|------------|----------------------|
| ACETAL P - <i>ditto</i> - | 3101 3171 | 1088 1088 | 3.1 3.2 | II | - | 3-06 | 330 330 |
| ACETALDEHYDE P | 3101 | 1089 | 3.1 | I | - | 3-06 | 300 |
| <i>para</i> -ACETALDEHYDE | see 3372 | 1264 | 3.3 | III | - | 3-06 | 300 |
| ACETALDEHYDE AMMONIA | 9021 | 1841 | 9 | III | - | 8-07 | 320 |
| ACETALDEHYDE DIETHYL ACETAL P - <i>ditto</i> - | see 3101 see 3171 | 1088 1088 | 3.1 3.2 | II | - | 3-06 | 330 330 |
| <i>beta</i> -ACETALDEHYDE OXIME | 3301 | 2332 | 3.3 | III | - | 3-06 | 320 |
| ACETALDOL | see 6055 | 2839 | 6.1 | II | - | 6.1-02 | 300 |
| <i>beta</i> -ACETALDOXIME | see 3301 | 2332 | 3.3 | III | - | 3-06 | 320 |
| ACETIC ACID, GLACIAL | 8100 | 2789 | 8 | II | Flammable liquid | 8-04 | 700 |
| ACETIC ACID, SOLUTION, more than 80% acid, by mass | 8100 | 2789 | 8 | II | Flammable liquid | 8-04 | 700 |
| ACETIC ACID, SOLUTION, more than 10% but not more than 80% acid, by mass | 8100 | 2790 | 8 | II* | - | 8-05 | 700 |
| ACETIC ALDEHYDE P | see 3101 | 1089 | 3.1 | I | - | 3-06 | 300 |
| ACETIC ANHYDRIDE | 8101 | 1715 | 8 | II | Flammable liquid | 8-04 | 700 |



International Air Transport Association (IATA) - Dangerous Goods



- Regulate dangerous goods shipments via commercial air



IATA -- DGR (Cont)



Identification

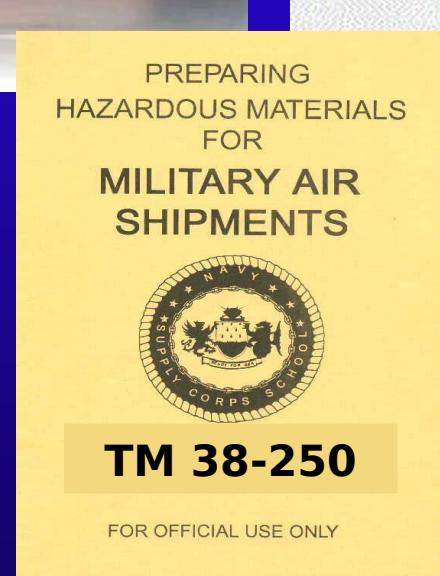
4.2 List of Dangerous Goods

| UN/ ID No. A | Proper Shipping Name/Description B | Class or Div. C | Sub Risk D | Hazard Label(s) E | PG F | Passenger and Cargo Aircraft | | | | Cargo Aircraft Only | | | | S.P. see 4.4 M | |
|-----------------------|--|--------------------------|------------------|-------------------------|---------|---------------------------------|-------------------------|------------------|-------------------------|------------------------|-------------------------|------------------|-------------------------|-------------------------|--|
| | | | | | | Ltd Qty | | Pkg Inst G | Max Qty per Pkg H | Pkg Inst I | Max Qty per Pkg J | Pkg Inst K | Max Qty per Pkg L | | |
| | | | | | | Pkg Inst F | Max Qty per Pkg H | | | | | | | | |
| 1088 | Accellerene, see p-Nitrosodimethylaniline (UN 1369) Accumulators, electric, see Batteries , etc. † (UN 2794, UN 2795, UN 2800) Accumulators, pressurized, hydraulic (containing non-flammable gas), see Articles, pressurized, hydraulic , etc. (UN 3164) Accumulators, pressurized, pneumatic (containing non-flammable gas), see Articles, pressurized, pneumatic , etc. (UN 3164) Acetal | 3 | | Flamm. liquid | II | Y305 | 1 L | 305 | 5 L | 307 | 60 L | | | | |

TM 38-250 / AFJMAN 24-204



- Regulates dangerous goods shipments via military air



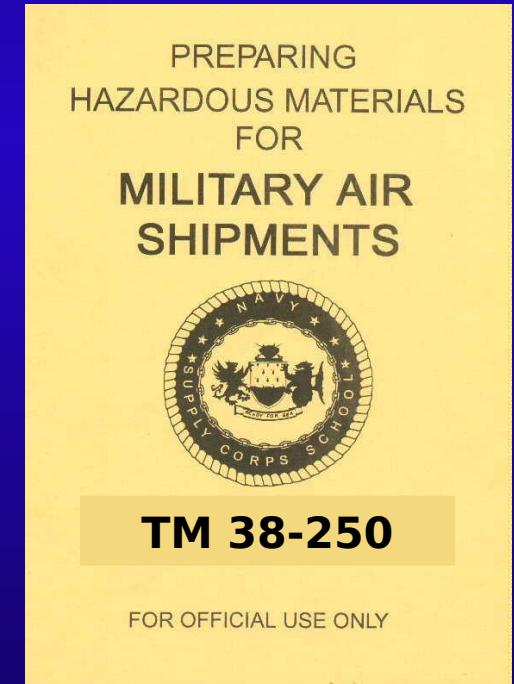
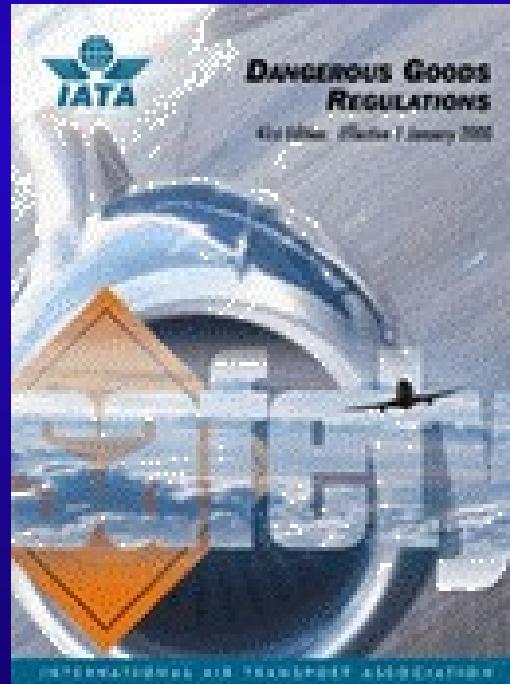
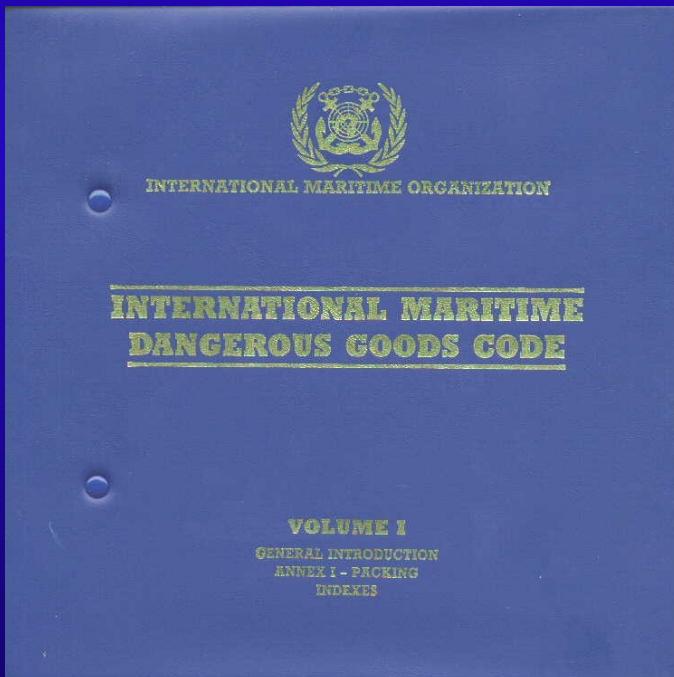
- This is a joint service publication

TM 38-250 (Cont)

| SYM- BOL (1) | PROPER SHIPPING NAME/DESCRIPTION (2) | HAZARD CLASS/DIV (3) | UN/ID NUMBER (4) | PG (5) | SUBSIDIARY RISK (6) | SPECIAL PROVISION (7) | PACKAGING PARAGRAPH (8) |
|--------------------|--|----------------------------|------------------------|-----------|---------------------------|-----------------------------|-------------------------------|
| | <i>Accellerene; see p-</i> | | | | | | |
| | NITROSODIMETHYLANILINE | | | | | | |
| | <i>Accumulators, electric; see BATTERIES, WET, etc.</i> | | | | | | |
| D | ACCUMULATORS, PRESSURIZED, <i>PNEUMATIC or HYDRAULIC (containing nonflammable gas) see also, ARTICLES, PRESSURIZED, etc.</i> | 2.2 | NA1956 | | | P5 | A6.9 |
| | ACETAL | 3 | UN1088 | II | | P5 | A7.3 |
| | ACETALDEHYDE | 3 | UN1089 | I | | P3, A3 | A7.3 |
| | ACETALDEHYDE AMMONIA | 9 | UN1841 | III | | P5 | A13.13 |
| | ACETALDEHYDE OXIME | 3 | UN2332 | III | | P5 | A7.3 |
| | ACETIC ACID, GLACIAL or ACETIC ACID SOLUTION, with more than 80% acid, by mass | 8 | UN2789 | II | | P5, A3, A6, A7, A10 | A12.3 |
| | ACETIC ACID SOLUTION, with more than 10%, but not more than 80% acid, by mass | 8 | UN2790 | II | | P5, A3, A6, A7, A10 | A12.3 |
| | ACETIC ANHYDRIDE | 8 | UN1715 | II | 3 | P5, A3, A6, A7, A10 | A12.3 |
| | <i>Acetic oxide; see ACETIC ANHYDRIDE</i> | | | | | | |
| | <i>Acetoin; see ACETYL METHYL CARBINOL</i> | | | | | | |
| | ACETONE | 3 | UN1090 | II | | P5 | A7.3 |
| | ACETONE CYANOHYDRIN STABILIZED | 6.1 | UN1541 | I | | P2, 2, A3, N34 | A10.7 |

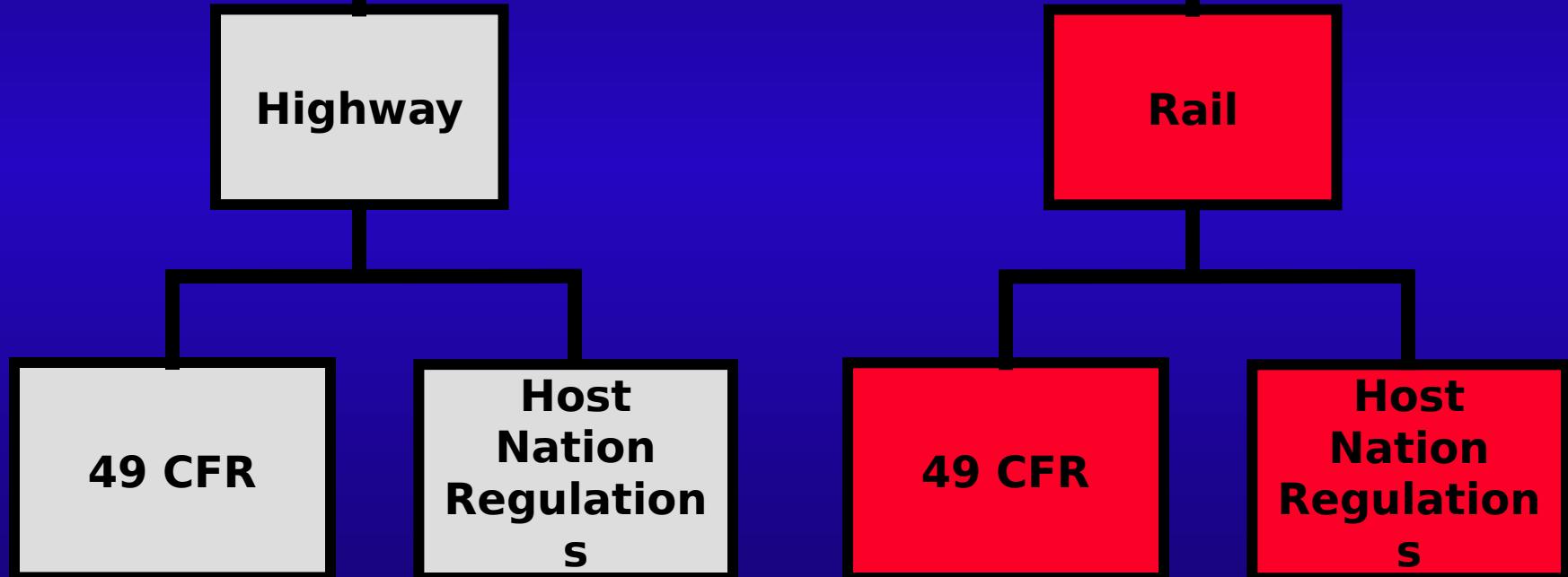
Multiple Regulations

- Each of these covers a different Transportation Mode. Be sure to use all that apply.

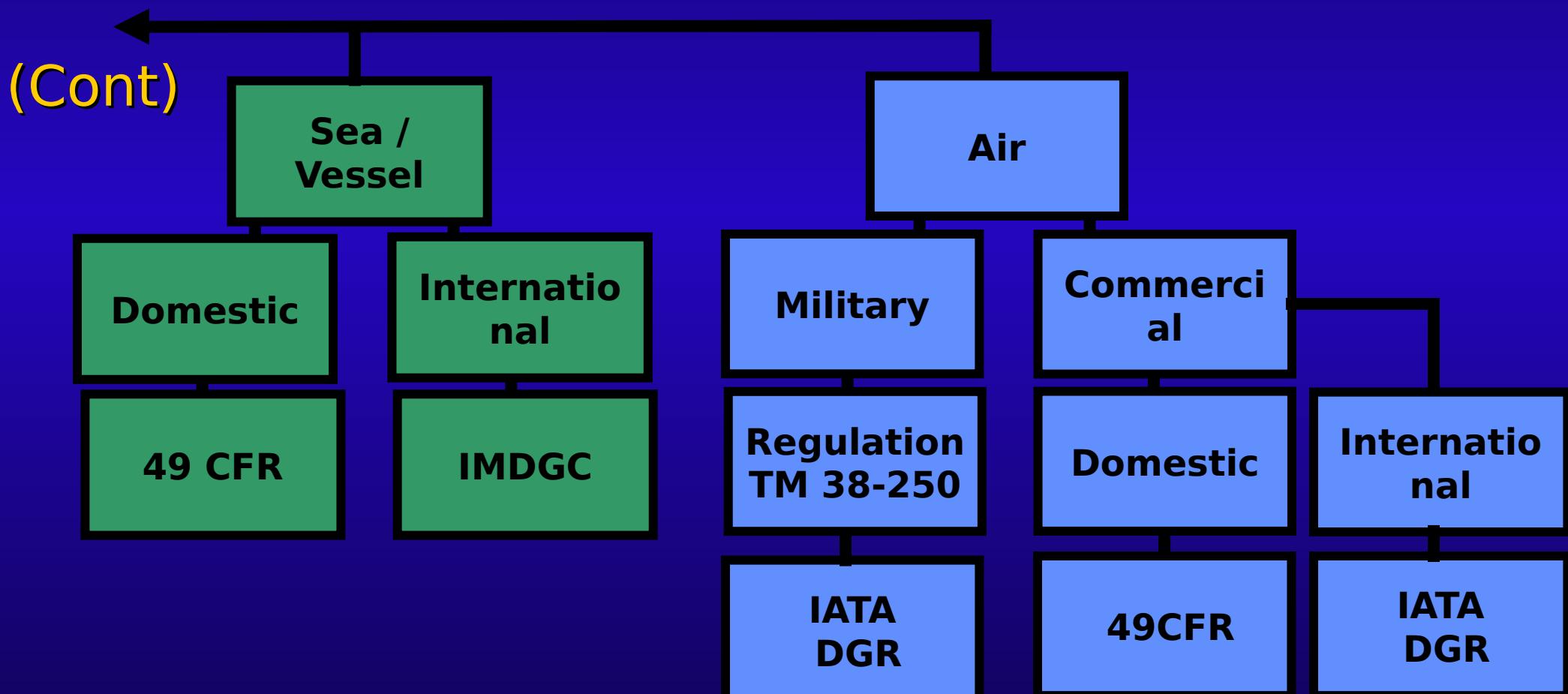


HAZMAT Regulations by Mode

(Cont)

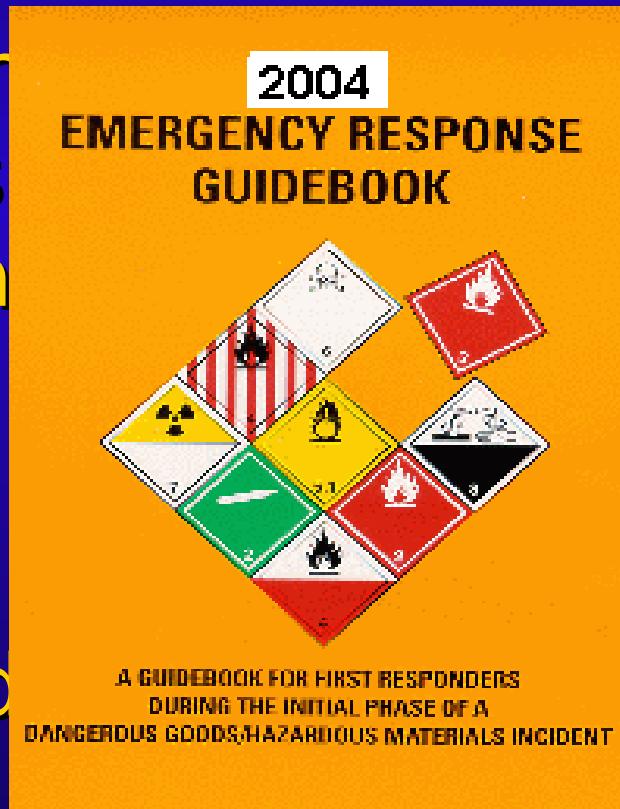


HAZMAT Regulations by Mode (Cont)



Current Emergency Response Guidebook (ERG)

- A guidebook for first responders during the initial phase of a hazardous materials / dangerous goods incident



ERG -- Yellow

- Yellow section: Index list of dangerous goods in numerical ID number order

| ID No. | Guide No. | Name of Material |
|--------|-----------|------------------|
| 1090 | 127 | Acetone |

ERG -- Blue

- **Blue** section: Index list of dangerous goods in alphabetical order of substance name

| Name of Material | Guide No. | ID No. |
|------------------|-----------|--------|
| Sulfuric acid | 137 | 1830 |

ERG -- Orange

- **Orange** section: Safety recommendations & emergency response information for dangerous substances identified by guide number including:
Potential Hazards: lists any fire, explosion & health effects of substances that must be handled immediately

ERG -- Orange (Cont)

- **Orange** section (Cont):

Public Safety: tells response team the immediate isolation distances, protective clothing recommendations & suggested evacuation distances

Emergency Response: Provides guidance & activities for fire, spill or leak incidents & first aid procedures

ERG -- Green

- **Green** section: Index list by numerical ID number of only those substances which are poisonous by inhalation
 - Includes initial isolation & protective action distances
- Remember: This publication should not be used to determine proper compliance

SUMMARY



On Learnin g



On Learnin

Question 1: Which regulation is the primary source of information on the transportation of hazardous material within the U.S.?

Answer 1: Title 49, Code of Federal Regulations (49 CFR)



On Learnin

g

Question 2: What publications should a unit have access to when preparing HAZMAT for transportation military air OCONUS?

Answer 2: TM 38-250, Preparing Hazardous Materials for Military Air Shipments & IATA Dangerous Goods Regulation (DGR)

Unit HAZMAT Responsibilities

Unit Responsibilities

- Purpose is to provide guidance and send “Flags” to UMO’s that certain equipment & materials may be defined as hazardous
- Some material items that are commonly shipped by deploying units: Oxygen & Acetylene cylinders; other compressed gases; various batteries & battery acids; mogas, diesel fuel & other POL products; antifreeze; fire extinguishers; mineral spirits, paint & paint thinner.

Unit Responsibilities (Cont)

- Appendix D, FM 4-01.011 gives direction on tasks that need to be accomplished to comply with HAZMAT regulations
 - ① Determine Proper Shipping Name
 - Determine the Hazard Class(s)
 - Determine the mode(s) of transportation
 - Make sure proper labeling is applied

Unit Responsibilities (Cont)

- Make sure you select proper packaging
- Ensure packaging is properly marked
- Prepare packing/load lists as required
- Determine the proper placarding of vehicles
- Determine the segregation requirements
- Ensure water commodity/special handling codes are entered into AUEL
- * (Step 11) Prepare appropriate shipping documentation

Hazardous Material Documentation

SDDG

Shipper's Declaration of Dangerous Goods

| SHIPPER'S DECLARATION FOR DANGEROUS GOODS | | | | | | | | | | |
|---|---------------------|--------|---|--------------------|--------------------------|--|---|--|--|--|
| Shipper ABC Company 1000 High Street Guelph, Ontario Canada | | | Air Waybill No. 800 1234 5686 Page 1 of 1 Pages Shipper's Reference Number (optional) | | | | | | | |
| Consignee CBA Inc 50 Rue de la Paix Paris 75 006 France | | | For optional use for Company logo name and address | | | | | | | |
| <small>Two completed and signed copies of this Declaration must be handed to the operator.</small> | | | | | | | | | | |
| TRANSPORT DETAILS <small>This shipment is within the limitations prescribed for (check non-applicable)</small> <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td style="padding: 2px;">PASSENGER AIRCRAFT</td> <td style="padding: 2px;">CARGO AIRCRAFT ONLY</td> </tr> </table> | | | | PASSENGER AIRCRAFT | CARGO AIRCRAFT ONLY | Airport of Departure: Guelph Airport of Destination: Paris, Charles de Gaulle | | | | |
| PASSENGER AIRCRAFT | CARGO AIRCRAFT ONLY | | | | | | | | | |
| <small>Shipment type: (check non-applicable)</small> <input checked="" type="checkbox"/> NON-RADIOACTIVE <input type="checkbox"/> RADIOACTIVE | | | | | | | | | | |
| NATURE AND QUANTITY OF DANGEROUS GOODS | | | | | | | | | | |
| Dangerous Goods Identification <small>Proper Shipping Name, Class or Division, UN or ID No., Packing Group, Subsidiary Risk, Quantity and type of packing, Packing Inst., Authorization</small> | | | | | | | | | | |
| Nitric acid | 6.1 | UN1054 | II | | 1 Steel drum 20 L | 611 | | | | |
| Self-reactive solid type V (Benzene Sulfophydrazide) | 4.1 | UN3226 | II | | 1 Fibreboard box x 10 kg | 430 | | | | |
| Paint | 3 | UN1263 | II | | 2 Fibreboard boxes x 4 L | 305 | | | | |
| Paint | 3 | UN1263 | III | | 1 Fibreboard box 30 L | 309 | | | | |
| Vehicle (flammable liquid powered) | 9 | UN1066 | | | One excavable 1350 kg | 900 | | | | |
| Chemical kits | 9 | UN3316 | II | | 1 Fibreboard box x 3 kg | 915 | | | | |
| Additional Handling Information <small>The packages containing UN3226 must be shaded from direct sunlight, stored away from all sources of heat in a well ventilated area and not overstacked with other cargo.</small> | | | | | | | | | | |
| I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. | | | | | | | Name/Title of Signatory B. Smith, Dispatch Supervisor Place and Date Guelph, 1 January 1999 Signature <small>(See warning above)</small> | | | |
| | | | | | | | B. Smith | | | |

Shipper's Dangerous Goods Checklist

SHIPPERS DANGEROUS GOODS CHECKLIST FOR NON-RADIOACTIVE BIOLOGICAL SHIPMENTS.

SHIPPERS DECLARATION FOR DANGEROUS GOODS (DGD).

IS THE FOLLOWING INFORMATION AS PRESENTED ON
A SHIPPERS DECLARATION OF DANGEROUS GOODS FORM
AND/OR WAYBILL CORRECT AND COMPLETE?

CHECK ALL
APPROPRIATE
BOXES.

YES

Two copies in English
and in the IATA format.
Full name and address
of **Shipper**
Full name and address
of **Consignee**.

Quantity and Type of
Packing.

YES N/A

Number and type of
Packages.
Quantity and unit of
measure per package.
Packing instruction
number.

Pages numbered and totaled.

Name of City Airports of departure and destination (may be entered by courier).

Delete the word Radioactive and either 'Passenger and Cargo' or 'Cargo Aircraft only'.

Proper shipping Name.

(Class 6.2 proper shipping name is
**INFECTIOUS
SUBSTANCE
AFFECTING HUMANS**).
(technical name,

Physical state and Risk group may be required).

Class or division.

UN or ID number preceded by prefix.

Packing Group.
Subsidiary Risk. E.G.
Dry Ice

Prior arrangement statement for Infectious Substances.

Name and Title of signatory, Place and Date indicated.

Signature of Shipper.

Amendment or alteration signed by Shipper.

On the Air Waybill.

The Handling Information box shows:

"Dangerous goods as per attached Shippers Declaration".

Cargo Aircraft Only, if applicable.

Packing conforms with packing instructions and is undamaged.

DD Form 626

Motor Vehicle Inspection

(Transporting Hazardous Materials)

DD Form 626

- Motor Vehicle Inspection (Transporting Hazardous Materials) form
- **Shipper must inspect** vehicle at origin before loading. **Receiver inspects** vehicle at destination before unloading
- Used for Inspecting government and commercial vehicles (see instructions for commercial vehicle) ⁴³

DD Form 626 (Cont)

- Read instructions before completing this form.
Instructions are found on the reverse side of the form.



| MOTOR VEHICLE INSPECTION (TRANSPORTING HAZARDOUS MATERIALS) (Read Instructions before completing this form.) | | | | | |
|---|--|--|--|---------------------------------|---------------------------------|
| This form applies to all vehicles which must be marked or placarded in accordance with Title 49 CFR. | | | 1. GOVERNMENT BILL OF LADING/TRANSPORTATION CONTROL NUMBER | | |
| SECTION I - DOCUMENTATION | | | ORIGIN a. | | DESTINATION b. |
| 2. CARRIER/GOVERNMENT ORGANIZATION | | | | | |
| 3. DATE/TIME OF INSPECTION | | | | | |
| 4. LOCATION OF INSPECTION | | | | | |
| 5. OPERATOR(S) NAME(S) | | | | | |
| 6. OPERATOR(S) LICENSE NUMBER(S) | | | | | |
| 7. MEDICAL EXAMINER'S CERTIFICATE* | | | | | |
| 8. (X if satisfactory at origin) | | | 9. CIVILIAN DECAL DISPLAYED ON COMMERCIAL EQUIPMENT* | | |
| a. MILITARY HAZMAT ENDORSEMENT | | d. ERG OR EQUIVALENT COMMERCIAL: | | YES | NO |
| b. VALID LEASE* | | e. DRIVER'S VEHICLE INSPECTION REPORT* | | a. TRUCK/TRACTOR | |
| c. ROUTE PLAN | | f. COPY OF 49 CFR PART 397 | | b. TRAILER | |
| SECTION II - MECHANICAL INSPECTION All items shall be checked on empty equipment prior to loading. Items with an asterisk shall be checked on all incoming loaded equipment. | | | | | |
| 10. TYPE OF VEHICLE(S) | | | 11. VEHICLE NUMBER(S) | | |
| 12. PART INSPECTED (X as applicable) | | | ORIGIN (1) SAT UNSAT | DESTINATION (2) SAT UNSAT | ORIGIN (1) SAT UNSAT |
| a. SPARE ELECTRICAL FUSES | | | k. EXHAUST SYSTEM | | DESTINATION (2) SAT UNSAT |
| b. HORN OPERATIVE | | | l. BRAKE SYSTEM* | | COMMENTS (3) |
| c. STEERING SYSTEM | | | m. SUSPENSION | | |
| d. WINDSHIELD/WIPERS | | | n. COUPLING DEVICES | | |
| e. MIRRORS | | | o. CARGO SPACE | | |
| f. WARNING EQUIPMENT | | | p. LANDING GEAR* | | |
| g. FIRE EXTINGUISHER* | | | q. TIRES, WHEELS, RIMS | | |
| h. ELECTRICAL WIRING | | | r. TAILGATE/DOORS* | | |
| i. LIGHTS AND REFLECTORS | | | s. TARPAULIN* | | |
| j. FUEL SYSTEM | | | t. OTHER (Specify) | | |
| 13. INSPECTION RESULTS (X one) | | | ACCEPTED | REJECTED | |
| (If rejected give reason under "Remarks". Equipment will be approved if deficiencies are corrected prior to loading.) | | | | | |
| 14. SATELLITE MOTOR SURVEILLANCE SYSTEM: (X one) | | | ACCEPTED | REJECTED | |
| 15. REMARKS | | | | | |
| 16. INSPECTOR SIGNATURE (Origin) | | | 17. INSPECTOR SIGNATURE (Destination) | | |
| SECTION III - POST LOADING INSPECTION This section applies to Commercial and Government/Military vehicles. All items will be checked prior to release of loaded equipment and shall be checked on all incoming loaded equipment. | | | | | |
| 18. LOADED IAW APPLICABLE SEGREGATION/COMPATIBILITY TABLE OF 49 CFR | | | ORIGIN (1) SAT UNSAT | DESTINATION (2) SAT UNSAT | COMMENTS (3) |
| 19. LOAD PROPERLY SECURED TO PREVENT MOVEMENT | | | | | |
| 20. SEALS APPLIED TO CLOSED VEHICLE; TARPAULIN APPLIED ON OPEN EQUIPMENT | | | | | |
| 21. PROPER PLACARDS APPLIED | | | | | |
| 22. SHIPPING PAPERS/DD FORM 836 FOR GOVERNMENT VEHICLE SHIPMENTS | | | | | |
| 23. COPY OF DD FORM 626 FOR DRIVER | | | | | |
| 24. SHIPPED UNDER DOT EXEMPTION 868 | | | | | |
| 25. INSPECTOR SIGNATURE (Origin) | | | 26. DRIVER(S) SIGNATURE (Origin) | | |
| 27. INSPECTOR SIGNATURE (Destination) | | | 28. DRIVER(S) SIGNATURE (Destination) | | |

DD Form 836

**Dangerous Goods Shipping
Paper / Declaration and
Emergency Response
Information for Hazardous
Materials Transported by
Government Vehicles,
Containers or Vessels**

- Fill out a **DD Form 836** if **transporting HAZMAT on government vehicles or in any shipping container** (including commercial 20' or 40' shipping containers) that is placed on a government vehicle for transportation
- Ensure other forms (HAZMAT guides from the current Emergency Response Guidebook [ERG]) are attached as appropriate

DD Form 836 (Cont)

- Must list all HAZMAT, providing quantities & weight
- Only a person who has completed the Hazardous Material Course can certify this document.

| HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT | | | | | |
|--|---|---|---|-----------------------|---|
| a. NOMENCLATURE: | b. MODEL NO.: | c. CONTAINER SEAL NO.: | d. SERIAL NO.: | e. TCN NUMBER: | f. BUMPER NO.: |
| DANGEROUS GOODS SHIPPING PAPER/DECLARATION AND EMERGENCY RESPONSE INFORMATION FOR HAZARDOUS MATERIALS TRANSPORTED BY GOVERNMENT VEHICLES/CONTAINERS OR VESSEL | | | | | |
| 2. SHIPPER/ADDRESS/TELEPHONE NO. | 3. LOCATION AND DATE SHIPMENT PREPARED | | | 4. DATE OF TRAVEL | 5. PAGE 1 OF _____ PAGES |
| 6. CARGO (To be completed by the unit or shipper Transportation Office (T.O.)) | | | | | |
| PROPER SHIPPING NAME (Include RQ, Technical Name, Additional Information per 49 CFR 172.203, as required.) a. | HAZARD CLASS DIVISION b. | UN/ID NUMBER c. | PACKING GROUP d. | PACKAGES NUMBER e. | NET TOTAL QUANTITY & GROSS WT. (kg) f. |
| | | | | | |
| (Port personnel complete Items 7 and 8.) | | | | | |
| 7. PORT OF EMBARKATION (OCONUS only) | 8a. SHIP NAME (OCONUS only) | b. VOYAGE NUMBER | | | |
| 9. CONSIGNEE | | | | | |
| 10. REMARKS | | | | | |
| 11a. COPY OF EMERGENCY GUIDE NUMBER(S) ATTACHED (See back of this form.) | | | | | |
| b. EMERGENCY NOTIFICATION. In all cases of accident, breakdown or fire, prompt notification must be given to shipper as noted in Item 2. | | | | | |
| c. 24-HOUR EMERGENCY ASSISTANCE TELEPHONE NUMBERS: | | | | | |
| DOD NON-EXPLOSIVE HAZMAT 1-800-851-8061 AT SEA: 804-279-3131 (COLLECT) | DOD HAZ CLASS 1 (EXPLOSIVES) ONLY 703-697-0218/0219 (COLLECT) (WATCH OFFICER) | SAFE HAVEN 1-800-524-0331 NATIONAL RESPONSE CENTER (NRC): 1-800-424-8802 AT SEA: 202-267-2675 (COLLECT) | DOD RADIOACTIVE MATERIALS: ARMY: (703) 697-0218 (COLLECT) USAFC: (202) 767-4011 USN/NC: (757) 887-4692/ 1-888/528-0148 DLA: (717) 770-5283 | | |
| 12. CONTAINER/PACKING CERTIFICATE OR VEHICLE PACKING DECLARATION It is hereby declared that the goods described above have been packed/loaded into the container/vehicle identified above in accordance with applicable provisions. (Must be completed and signed for all container/vehicle loads by person responsible for packing/loading.) | | | | | |
| CONTAINER NO. | | VEHICLE NO. | | c. DATE (YYYYMMDD) | |
| a. TYPE OR PRINT NAME | b. SIGNATURE | | | | |
| 13. SHIPPER'S CERTIFICATION This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, International and national governmental regulations. | | | | | |
| a. TYPE OR PRINT NAME OF SHIPPER CERTIFIER | c. SIGNATURE(S) OF VEHICLE OPERATOR(S) | | | | |
| b. SIGNATURE OF SHIPPER CERTIFIER | | | | | |
| 14. (X as appropriate) PREPARED IN ACCORDANCE WITH: 49 CFR IMDGC | | | | | |
| DD FORM 836, MAY 2000 PREVIOUS EDITION IS OBSOLETE. | | | | | |
| This form meets the requirements of SOLAS 74 Chapter VII, Regulation 5; MARPOL 73/78 Annex III, Regulation 4 and IMDG Code, General Introduction, Section 9. | | | | | |
| HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT//HAZMAT | | | | | |

DD Form 836 (Cont)

- The emergency information for explosives is found on the reverse side of the form
- When carrying HAZMAT other than explosives, attach the appropriate guide from the current ERG

| HAZMAT EMERGENCY RESPONSE INFO | |
|--|--|
| EMERGENCY RESPONSE INFORMATION | |
| Guide numbers 112 and 114 from the U.S. Department of Transportation North American Emergency Response Guide Book (RSPA P5800.7) are reproduced herein. These guides are applicable to hazard Class 1 materials (Explosives). Mark an X in the appropriate box. | |
| <input checked="" type="checkbox"/> USE GUIDE 112 FOR EXPLOSIVES (1.1), (1.2), (1.3), (1.5) OR (1.6) Class A or B | <input type="checkbox"/> USE GUIDE 114 FOR EXPLOSIVES (1.4) Class C |
| For all other hazardous materials or substances, annotate appropriate emergency Response Guide Book Guide Number in the block 11.a., and attach a copy of the guide number page or pages. | |
| GUIDE 112 | GUIDE 114 |
| POTENTIAL HAZARDS FIRE OR EXPLOSION: MAY EXPLODE AND THROW FRAGMENTS 1600 METERS (1 MILE) OR MORE IF FIRE REACHES CARGO HEALTH HAZARDS: Fire may produce irritating, corrosive and/or toxic gases. PUBLIC SAFETY: CALL CHEMTRIC AT 1-800-424-9300. - Isolate spill or leak area immediately for at least 500 meters (1/3 mile) in all directions. Move people out of line of sight of the scene and away from windows. - Keep unauthorized personnel away and stay upwind. - Ventilate closed spaces before entering. | POTENTIAL HAZARDS FIRE OR EXPLOSION: MAY EXPLODE AND THROW FRAGMENTS 500 meters (1/3 MILE) OR MORE IF FIRE REACHES CARGO HEALTH HAZARDS: Fire may produce irritating, corrosive and/or toxic gases. PUBLIC SAFETY: CALL Emergency Response Telephone Number on Shipping paper first. If Shipping Paper not available or no answer, CALL CHEMTRIC AT 1-800-424-9300. - Isolate leak or spill area immediately for at least 100 meters (300 feet) in all directions. Move people out of line of sight of the scene and away from windows. - Keep unauthorized personnel away and stay upwind. - Ventilate, closed spaces before entering. PROTECTIVE CLOTHING: - Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighter's protective clothing will only provide limited protection. EVACUATION: LARGE SPILL: Consider initial evacuation for 800 meters (1/2 mile) in all directions. FIRE: - If rail car or trailer is involved in a fire, ISOLATE for 500 meters (1/3 mile) in all directions; also, initiate evacuation including emergency responder for 500 |

DD Form 836 (Cont)

- Appropriate Emergency Response Guidebook page(s) must be attached to DD Form 836

HAZMAT HAZMAT HAZMAT HAZMAT HAZMAT

ERG2000

ough skin.

and/or toxic and cause pollution.

y decompose upon heating to

ETY
or on Shipping Paper first. If Shipping
ropriate telephone number listed on the

st 25 to 50 meters (80 to 160 feet) in all

breathing apparatus (SCBA).
which is specifically recommended by the manufacturer.
tection.

nothing provides limited protection in fire situations ONLY;

on and Protective Action Distances for highlighted substances.
es, increase, in the downwind direction, as necessary, the
er "PUBLIC SAFETY".

jk is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all
initial evacuation for 800 meters (1/2 mile) in all directions.

HAZMAT

DD Form 2890

DOD MULTIMODAL DANGEROUS GOODS DECLARATION

- Used by unit to certify hazardous material moving by commercial truck, rail and sea
- Can be used instead of DD form 836 on public highways in CONUS
- Must be used by sea mode, SDDC will no longer accept the DD Form 836

DD Form 2890 Cont

- When certifying by multiple modes units need only complete the DD Form 2890, certifying to the most stringent mode
- Individual certifying the form must be trained by a DOD approved school
- When the form is being used to certify hazardous materials moving by military vehicles in CONUS, the certifier can be either school trained or have been qualified as a Technical Specialist within The past 24 months

DD FORM 2890C (CONTINUATION SHEET)

- The DD Form 2890C is used as a continuation form and must be attached to the DD Form 2890

| DOD MULTIMODAL DANGEROUS GOODS DECLARATION | | | |
|--|--|--|---|
| This form may be used as a dangerous goods declaration as it meets the requirements of SOLAS 74, Chapter VII, regulation 54; MARPOL 72/78, Annex III, Regulation 4. | | | |
| 1. SHIPPER/CONSIGNOR/SENDER REFERENCE | 2. TRANSPORT DOCUMENT NUMBER | 3. PAGE 1 OF PAGES | 4. SHIPPER'S REFERENCE (TCN) |
| 5. FREIGHT FORWARDER'S REFERENCE | 6. CONSIGNEE REFERENCE | 7. CARRIER (To be completed by the carrier) | |
| 24-HOUR EMERGENCY ASSISTANCE TELEPHONE NUMBERS: | | | |
| DOD NON-EXPLOSIVE HAZMAT 1-800-861-0001 AT SEA COLLECT (804) 279-1131 | DOD HAZ CLASS 1 (EXPLOSIVES) ONLY COLLECT (703) 697-0218/0219 | CHEMICAL/BIOLOGICAL WARRANTY MATERIAL DOD SECURE HOLDING 0100-0218-0000-10455 AFTER DUTY HOURS (410) 436-2148 Ask for TEU S3 | DOD RADIOACTIVE MATERIALS, COLLECT ARMY (703) 697-0218 DOD SECURE HOLDING DIA (717) 770-5283 DOD SECURE HOLDING 020-267-2675 Emergency response number provided by activity |
| 8. THIS SHIPMENT IS WITHIN THE LIMITATIONS PRESCRIBED FOR: (X as applicable) | | 9. CONTAINER/PACKING/DECLARATION OR VEHICLE/PACKING DECLARATION, DD FORM 2891, IS ATTACHED (X if applicable) | |
| 10. VOYAGE DOCUMENT NUMBER AND SAILING DATE (To be completed by the carrier) | 11. PORT/PLACE OF LOADING | 12. PORT/PLACE OF DISCHARGE | |
| 13. DESTINATION | | | |
| 14. SHIPPING DESCRIPTION OF GOODS (UN No., PSM, HC, SHC, PG, number and kind of package, and additional MARKS information as required by regulation) | | | |
| 15. CONTAINER IDENTIFICATION NO./ VEHICLE REGISTRATION NO. | | 16. SEAL NUMBER(S) | 17. CONTAINER/VEHICLE AND TYPE |
| 18. TARE MASS (kg) | | | |
| 19. ADDITIONAL HANDLING INFORMATION | | | |
| 20. RECEIVING ORGANIZATION RECEIPT Received the above number of packages/containers/trailers in apparent good order and condition, unless stated herein: a. RECEIVING ORGANIZATION REMARKS | | | |
| b. HAULER'S NAME | c. VEHICLE REGISTRATION NO. | d. SIGNATURE AND DATE | e. DRIVER'S SIGNATURE |
| 21. SHIPPER PREPARING THIS FORM SHIPPER'S DECLARATION: I declare that the contents of this consignment are fully and accurately described above by the Proper Shipping Name, are classified, packed, marked, and labeled/packaged and are in all respects in proper condition for transport according to the international and national government regulations. | | | |
| a. NAME/OF COMPANY/MILITARY UNIT | b. NAME/STATUS OF DECLARANT/CERTIFIER | | |
| c. PLACE AND DATE | d. SIGNATURE OF DECLARANT/CERTIFIER | | |

DD FORM 2890, OCT 2005

PREVIOUS EDITION IS OBSOLETE

FormFill/Adobe Professional 6.0

DD FORM
2890C

DD FORM 2890C, OCT 2005

PREVIOUS EDITION IS OBSOLETE

DD FORM 2781

CONTAINER PACKING CERTIFICATE

OR

VEHICLE PACKING DECLARATION

- Must be used when certifying hazmat for shipment OCONUS via sea
- Attached to the DD Form movement 2890

| CONTAINER PACKING CERTIFICATE OR VEHICLE PACKING DECLARATION | | | |
|---|---------------|----------------------|-----------------|
| Person responsible for packing the cargo transport unit (vehicle/container) will complete the checklist. Cross out "vehicle" or "container", as applicable. After completion, sign the certificate. | | | |
| 1. It is declared that the undersigned has visually inspected (Container/Vehicle) Number: (cross out whichever item does NOT apply) and it has been loaded/packed in accordance with the provisions of 5.4.2.1 (IMDG) and CFR 49 and that (indicate "N/A" for all items that do NOT apply): | | | |
| a. The cargo transport unit (container/vehicle) was clean, dry, and apparently fit to receive the goods. | | | |
| b. If the consignment includes goods of class 1, other than 1.4, the cargo transport unit (container/vehicle) is structurally serviceable in conformity with 7.4.6 (IMDG). | | | |
| c. Goods that should be segregated, have not been packed together onto or in the cargo transport unit (container/ vehicle) (unless approved by the competent authority concerned in accordance with 7.2.2.3 (IMDG)). | | | |
| d. All packages have been externally inspected for damage, leakage, or sifting, and only sound packages have been packed. | | | |
| e. Drums have been stowed in an upright position, unless otherwise authorized by the competent authority. | | | |
| f. All packages have been properly packed onto or in the cargo transport unit (container/vehicle) and secured. | | | |
| g. When dangerous goods are transported in bulk packagings, the cargo has been evenly distributed. | | | |
| h. The cargo transport unit (container/vehicle) and packagings therein are properly marked, labeled, and placarded. | | | |
| i. When solid carbon dioxide (CO ₂ - dry ice) is used for cooling purposes, the cargo transport unit (container/vehicle) is externally marked or labeled in a conspicuous place, such as the door, and with the words: "DANGEROUS CO ₂ - GAS (DRY ICE) INSIDE. VENTILATE THOROUGHLY BEFORE ENTERING". | | | |
| j. The dangerous goods transport document required in 5.4.1 (IMDG) has been received for each dangerous goods consignment packed in the cargo transport unit (container/vehicle). | | | |
| k. If container is stowed with a vehicle and/or mechanical equipment with fuel in the tank, a warning label has been affixed to access doors legibly reading: "WARNING - MAY CONTAIN EXPLOSIVE MIXTURES WITH AIR - KEEP IGNITION SOURCES AWAY WHEN OPENING" in accordance with 49 CFR 176.905(a)(5). | | | |
| 2. PERSON RESPONSIBLE FOR PACKING | | | |
| a. PRINTED NAME (Last, First, Middle Initial) | b. RANK/GRADE | c. TITLE | d. ORGANIZATION |
| e. PLACE PACKED | f. SIGNATURE | g. DATE (YYYY/MM/DD) | |

Shipment Papers

- 49 CFR requires every shipment of HAZMAT be accompanied by shipping papers & a shipper's certification
 - Must be legible
 - Printed mechanically or manually
 - Printed in English
- The description must include:
 - Proper shipping name entered **first** or in **contrasting color**



Shipment Papers (Cont)

- The description must include (Cont):
 - Hazardous class or division
 - Identification Number
 - Packing Group in Roman numerals
 - Total quantity
 - Emergency response telephone number

In
that
order

Government Bill of Ladina

- Used when civilian company is moving
- government goods

~~Note that a DD Form 626 is also required for HAZMAT shipments.~~

| U.S. GOVERNMENT BILL OF LADING | | | | | | | | | | MEMORANDUM COPY | | B/L NO. > M2536514 | | | |
|---|-----|--|--|------------------------------|---|------------------------------|---|---------------------------------|---|--|---|------------------------|--|---------|--|
| 1. TRANSPORTATION COMPANY TENDERED TO OLD DOMINION FREIGHT LINE, INC. | | | | | 2. SCAC O'DFEL | | 3. DATE BL PREPARED 20090520 | | 4. ROUTE ORDER/RELEASE NUMBER 7VRCNABRPF | | | | | | |
| 5. DESTINATION (Name, address, and ZIP code) MARINE AIR STATION TRAFFIC MANAGEMENT BLDG 149 CHERRY POINT, NC 28533-5040 | | | | | 6. SPLC (Dest) 405573000 | | 8. ORIGIN (Name, address, and ZIP code) 375 AW/LGTTF TRAFFIC MGT FLT 102 SOUTH ADAMS STREET BLDG 4001 SCOTT AFB IL 62225-5406 | | | | | | | | |
| 7. SPLC (Orig) 386618740 | | | | | 10. GBLOC (Cores) IOOF | | 11. SHIPPER (Name, address and ZIP code) 375 AW/LGTTF TRAFFIC MGT FLT 102 SOUTH ADAMS STREET BLDG 4001 SCOTT AFB IL 62225-5406 | | | | | | | | |
| 12. APPROPRIATION CHARGEABLE ADVICE NO. Q/A: | | | | | 13. BILL CHARGES TO (Dept/Agency/bureau/office mailing address and ZIP code) COMMANDING GENERAL MARINE CORP MARINE CORPS LG BASE, CODE 470 ALBANY, GA 31704-5001 | | | | | | AGENCY LOC CODE G31704 | | | | |
| 14. VIA (Route shipment when advantageous to the Government) | | | | | | | | | | | | | | | |
| 15. MARKS AND ANNOTATIONS RDD - 1999-06-01 MARINE AIR STATION TRAFFIC MNGT BLDG 149 CHERRY POINT NC 28533-5040 | | | | | | | | | | | | | | | |
| 16. PACKAGES | | 17. DESCRIPTION OF ARTICLES (Use carrier's classification or tariff description if possible; otherwise use a clear nontechnical description) CLASSIFICATION ITEM NO. FAK, RVNE \$2.50 PER LB D-09991510 | | 18. WEIGHT* (Pounds only) | | 19. WEIGHT* (Pounds only) | | FOR USE OF BILLING CARRIER ONLY | | | | | | | |
| 1 | PCS | RELEASE VALUE: \$2.50 | TOTAL CUBE: | | 0 TOTAL WEIGHT: | | 194 | 194 | 04300136603 | STL | TOTAL CHARGES | | | | |
| | | | This GBL consists of 2 page(s) and has no stop offs. | | | | | | | | | | | | |
| 1 | SD | X | EMERGENCY PHONE # 1-800-851-8061 | | M001469130006XXXX N-156240(0) | | 194 | 194 | | | | | | | |
| | | | LIQUID, NOL, OTHER THAN AS DESCRIBED IN ITEMS 46030 AND 46032, IN BARRELS, BOXES, CRATES OR PACKAGES 2440, 2445 OR 2516 PAINT 3/ FLAMMABLE LIQUID, UN1263, PGII, ACETONE 3/ FLAMMABLE LIQUID, UN1090, PGII, PROPANE 2/1 FLAMMABLE GAS, UN1978. | | CUBE: 21 | | | | | | | | | | |
| 20. TARIFF/SPECIAL RATE AUTHORITY O'DFEL 0012/03/00 | | | | | 21. PICKUP SERV. FURNISHED VEHICLE FULLY LOADED | | YES | | SHIPPER'S INITIALS KMD | | 22. CARRIER WAY/FREIGHT BILL NO. AND DATE O'DFEL 04300136603 | | | | |
| 23. STOP THIS SHIPMENT AT FOR: | | | 24. FURNISH INFORMATION ON CAR/TRUCK/LOAD/CONTAINER SHIPMENTS* | | | INITIALS & NO. | | SEAL NUMBERS | | LENGTH/CUBE | | MARKED CAPACITY | | | |
| | | | | | | O'DFEL/1 O'DFEL/1 | | | | ORDERED AV1 / | | FURNISHED AV1 | | | |
| 25. CARRIER'S PICKUP DATE (Year, month & day) 99 5 20 | | | 26a. SIGNATURE OF AGENT Ben Grzof /sh | | | APPLIED BY: | | 682116 | | 26b. PER | | B/L NUMBER M2536514 | | | |
| 27. MODE B | | 28. ESTIMATE 52 | | 29. NO. OF CLS/TLS 1 | | 30. TYPE RATE 1 | | 31. PSC 32. REASON | | Received by the transportation company named above, subject to the regulations published in Title 41, Part 101-41 of the federal regulations, the property hereinabove described, in apparent good order and condition (contents and value unknown), to be forwarded to destination by the said company and connecting lines, there to be delivered in like good order and condition to said consignee | | | | | |
| B/L FOR USE OF ISSUING OFFICE | | | | | | | | | | | | | | | |
| 33a. ISSUING OFFICE (Name and complete address) TRAFFIC MANAGEMENT OFFICE 102 SOUTH ADAMS STREET BLDG 4010 SCOTT AFB IL 62225-5426 | | | | | | | | | | | | | | | |
| 33b. GBLOC GKEL | | | | | | | | | | | | | | | |
| 33c. ISSUING OFFICER GARY R. TYLER GARY R. TYLER, GS-12, TMO | | | | | | | | | | 34d. DELIVERED THIS CONSIGNMENT COMPLETE & IN APPARENT GOOD ORDER EXCEPT AS MAY BE INDICATED | | | | | |
| 33d. CONTRACT/PURCHASE ORDER NO. OR OTHER AUTHORITY | | | | | | | | | | 33e. DATED | | SHORTRAGE | | DAMAGED | |
| 33f. FOB POINT NAMED IN CONTRACT | | | | | | | | | | | | | | | |

Figure 204-2. Sample of Completed GBL (SF 1103) for a HAZMAT Shipment.

GBL

U.S. GOVERNMENT BILL OF LADING

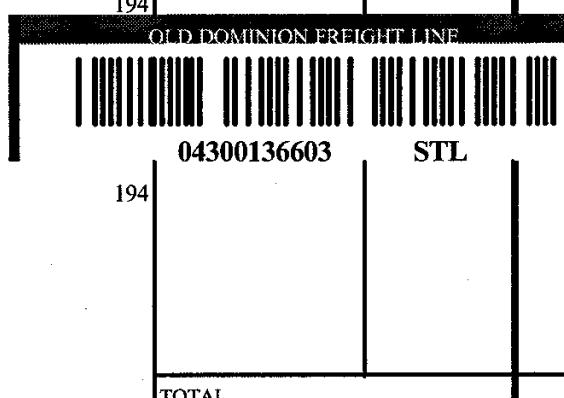
MEMORANDUM
COPY
B/L
NO > M2536514

| | | | |
|---|---|--|---|
| 1. TRANSPORTATION COMPANY TENDERED TO OLD DOMINION FREIGHT LINE, INC. | 2. SCAC ODEL | 3. DATE B/L PREPARED 990520 | 4. ROUTE ORDER/RELEASE NUMBER 7YBCANR3PF |
| 5. DESTINATION (Name, address, and ZIP code) MARINE AIR STATION TRAFFIC MANAGEMENT BLDG 149 CHERRY POINT, NC 28533-5040 | 6. SPLC (Dest.) 405523000 | 8. ORIGIN (Name, address, and ZIP code) 375 AW/LGTTF TRAFFIC MGT FLT 102 SOUTH ADAMS STREET BLDG 4001 SCOTT AFB, IL 62225-5406 | 7. SPLC (Orig.) 396618240 |
| 9. CONSIGNEE (Name, address and ZIP code of installation) MARINE AIR STATION TRAFFIC MANAGEMENT BLDG 149 CHERRY POINT, NC 28533-5040 | 10. GBLOC (Cons.) IOOI | 11. SHIPPER (Name, address and ZIP code) 375 AW/LGTTF TRAFFIC MGT FLT 102 SOUTH ADAMS STREET BLDG 4001 SCOTT AFB, IL 62225-5406 | |
| 12. APPROPRIATION CHARGEABLE ADVICE NO. Q/A: | 13. BILL CHARGES TO (Dept/agency/bureau/office mailing address and ZIP code) COMMANDING GENERAL MARINE CORP MARINE CORPS LG BASE, CODE 470 ALBANY, GA 31704-5001 | | |
| 14. VIA (Route shipment when advantageous to the Government) | AGENCY LOC CODE G31704 | | |

15. MARKS AND ANNOTATIONS
RDD - 1999-06-01MARINE AIR STATION
TRAFFIC MNG
CHERRY POINT

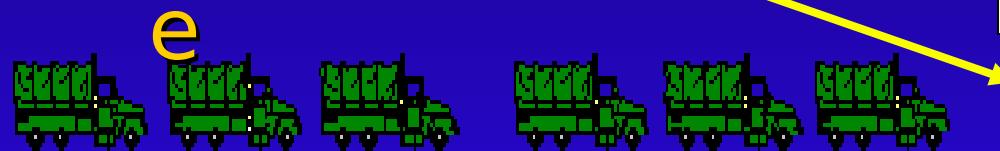
EMERGENCY PHONE # 1-800-851-8061

| 16. PACKAGES | | | 17 | 18 | description if possible; otherwise use a clear nontechnical description) | | (Pounds only) | Services | Rate | Charges |
|---|------|----|----|----|--|--|---------------|-----------------|------|---------|
| NO | KIND | HM | | | | | | | | |
| 1 | PCS | | | | CLASSIFICATION ITEM NO. FAK, RVNE \$2.50 PER LB D.999913(0) | | | | | |
| | | | | | RELEASE VALUE: \$2.50 | | TOTAL CUBE: | 0 TOTAL WEIGHT: | | |
| This GBL consists of 2 page(s) and has no stop offs. | | | | | | | | | | |
| 1 | SD | X | | | EMERGENCY PHONE # 1-800-851-8061 | | | | | |
| M001469130006XXX N-156240(0) CUBE: 21 | | | | | | | | | | |
| LIQUID, NOI, OTHER THAN AS DESCRIBED IN ITEMS 46030 AND 46032, IN BARRELS, BOXES, CRATES OR PACKAGES 2440, 2445 OR 2516 | | | | | | | | | | |
| PAINT.3/ FLAMMABLE LIQUID, UN1263, PGII, ACETONE.3/ FLAMMABLE LIQUID, UN1090, PGII, PROPANE.2.1/ FLAMMABLE GAS, UN1978. | | | | | | | | | | |



Convoy to APOE

- Deploy by:
Surfac



DD
Form
626

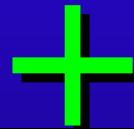
DD
Form
836

or

DD
Form
2890

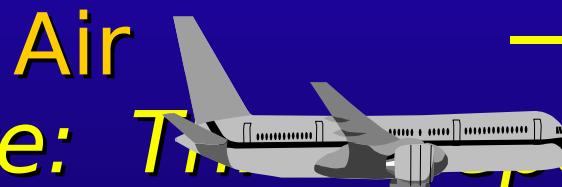
Regulations
49 CFR

DOD 4500.9-R, Part II



Shippers
Declaration
for
Dangerous
Materials

Regulations
TM 38-250

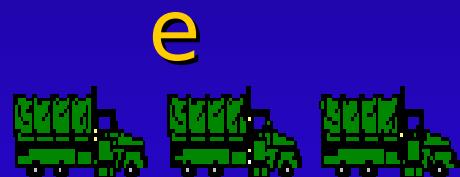


Note: The separate HAZMAT forms are required

If DD Form 2890 is used, you still need three forms

Convoy to SPOE

- Deploy by:
Surface



Sea



DD
Form
836

DD
Form
2890

DD
Form
626

DD
Form
2890

Regulations
49 CFR
DOD 4500.9-R, Part II

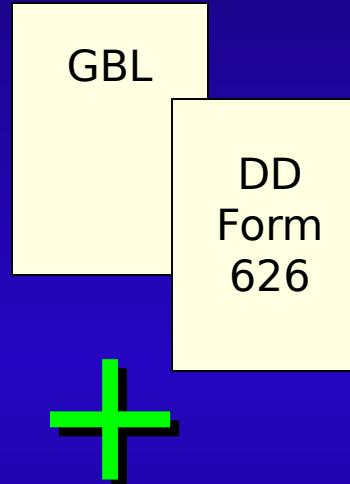
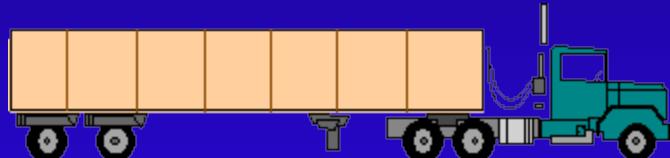
Regulation
IMDG

Note: Only Two separate HAZMAT forms are required if you use the DD Form 2890 for both modes (surface & sea)

Commercial Truck / Rail to APOE

- Deploy by:

Com'l Surface



Regulation
49 CFR
FR 55-1
DOD 4500.9-R,
Part II



Air



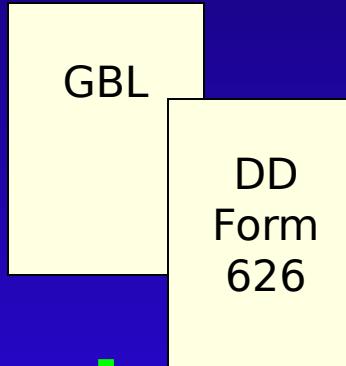
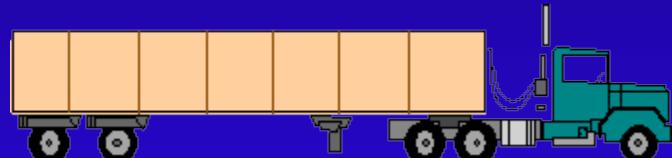
Regulations
TM 38-250
IATA

Note: Three separate HAZMAT forms are required

Commercial Truck / Rail to SPOE

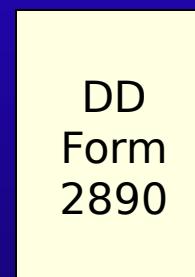
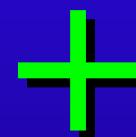
- Deploy by:

Com'l Surface



Regulation
49 CFR
FR 55-1

DOD 4500.9-R,
Part II



Regulation
IMDG

Sea



Note: Three separate HAZMAT forms are required

Emergency Response Information

- Emergency response information provided on shipping documents must be printed in English and include:
 - A 24-hour emergency response telephone number (with area code & international access codes) monitored at all times by a person who is knowledgeable in the material and emergency response procedures

Shippers Certification

- **49 CFR, Para 172.204** - “..each person who offers a hazardous material... shall certify that the material is offered in accordance with this subchapter by printing (manually or mechanically) on the shipping paper containing the required shipping description the certification”

Shippers Certification (Cont)

- “This is to certify that the ('above-named' or 'herein-named') materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulation of the Department of Transportation”
- There are several ways to word the certification. consult Para 172.204 for variations, i.e., air.

Training Requirements

- Mandatory for all involved with preparation, shipment or certification of HAZMAT for transportation
- Training documented in personnel records until 90 days following separation from DOD
- **HAZMAT training is good for 2 years**, then refresher courses are required
- Certifier and packaging personnel are appointed in writing by unit commander

Certification Training Requirements

- Certification training must be accomplished at one of four DOD schools located at:
 - U.S. Army Defense Ammunition Center, Savanna, IL
 - School of Military Packaging Technology, Aberdeen Proving Grounds, MD
 - Navy Supply Corps School, Athens, GA
 - 345 TRS / TTTD, Lackland AFB, TX

SUMMARY



On Learnin g



On Learnin g

Question 1: Which form is used to verify the hazardous materials documentation of a vehicle that is transporting HAZMAT?

Answer 1: DD Form 626, is used when transporting HAZMAT on either commercial or military vehicles



On Learnin g

Question 2: If shipping hazardous material by commercial air with your troops, what HAZMAT documentation must be completed?

Answer 2: You must complete the Shippers Declaration for Dangerous Goods

Hazardous Materials Information

Classifying HAZMAT

- Three steps to proper HAZMAT Classification:
 - ① Correctly identify & classify material into one of the nine Hazard Classes
 - Determine any subsidiary risks
 - Assign the item to one of the 3 Packing Groups, if applicable
- Note: A single material may fall into several hazard classes

Identifying HAZMAT

- HAZMAT must be identified by its **Proper Shipping Name** as listed in the appropriate modal regulation
 - Trade Names (for example, “Drop Dead Fly Trap”) are **NOT** considered proper shipping names
 - Pesticides, solid, toxic, n.o.s. would be the Proper Shipping Name for the above product

Identifying HAZMAT (Cont)

- HAZMAT must also be identified by the **Chemical Name** of the primary hazardous ingredient & proper ID number

Example: Dithiocarbamate pesticide, solid, poisonous UN2771
- Packing Group (if applicable) must also be identified

Identifying HAZMAT (Cont)

- Packing Groups (PG): indicate degree of danger presented by the material

PG I: Great Danger

PG II: Medium Danger

PG III: Minor Danger

Identifying HAZMAT (Cont)

- Packing Group classification example:

Hydrogen Peroxide:

Pure -100%: = PG I

7-10% Diluted: = PG II

50 -70% Diluted: = PG III



Identifying HAZMAT (Cont)

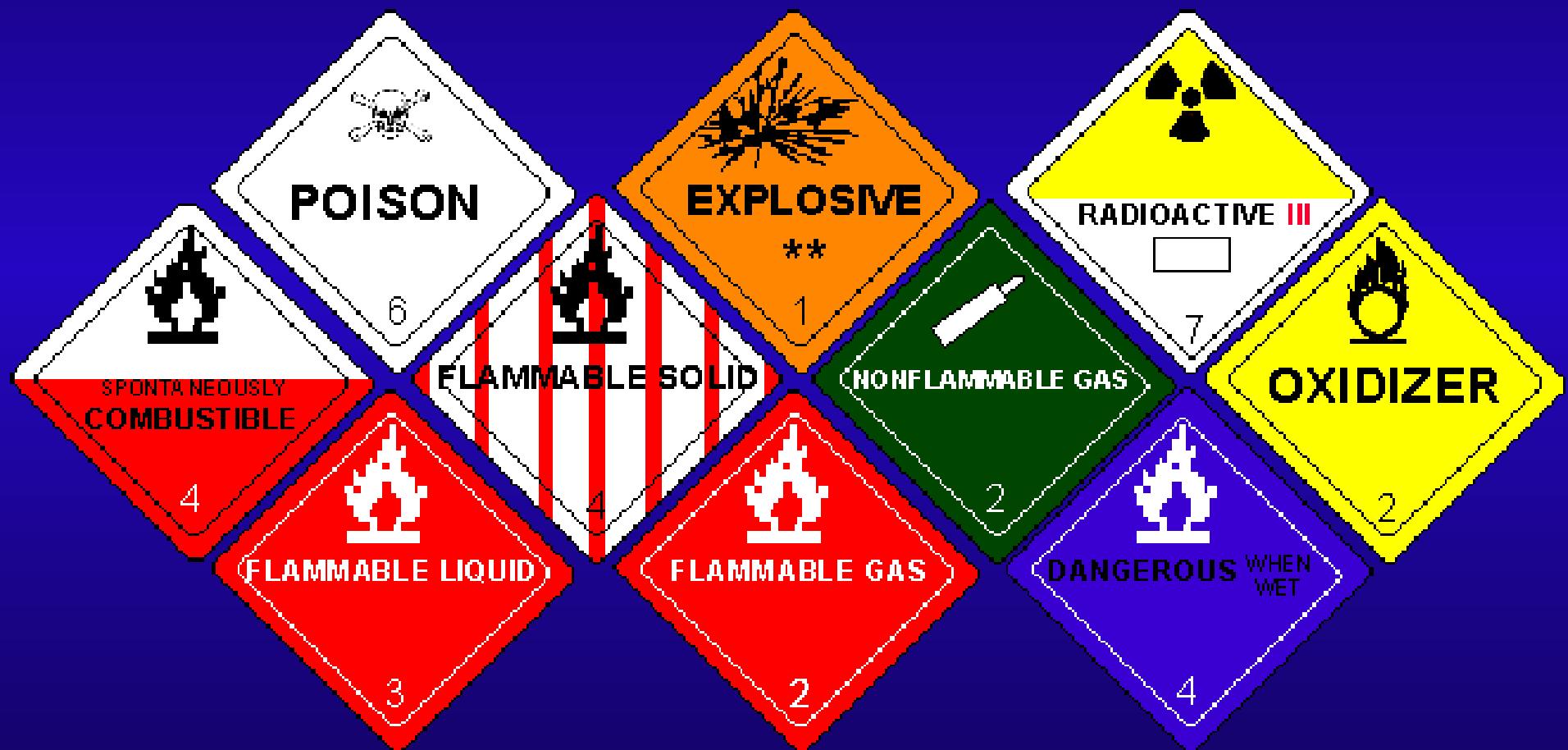
- ID numbers are not required for:
Limited
Quantity



Consumer Commodity
ORM-D



Hazardous Material Class Labels



HAZMAT Packaging &

Marking/Labeling

- Use UN or other authorized packaging
- Packaging materials must be compatible with the hazardous material being packaged
- Multiple substances in one package must be compatible with each other
- In addition to shipper/consignee information, HAZMAT shipments require additional marking/labeling

HAZMAT Marking/Labeling (Cont)

- Markings must be:

Durable

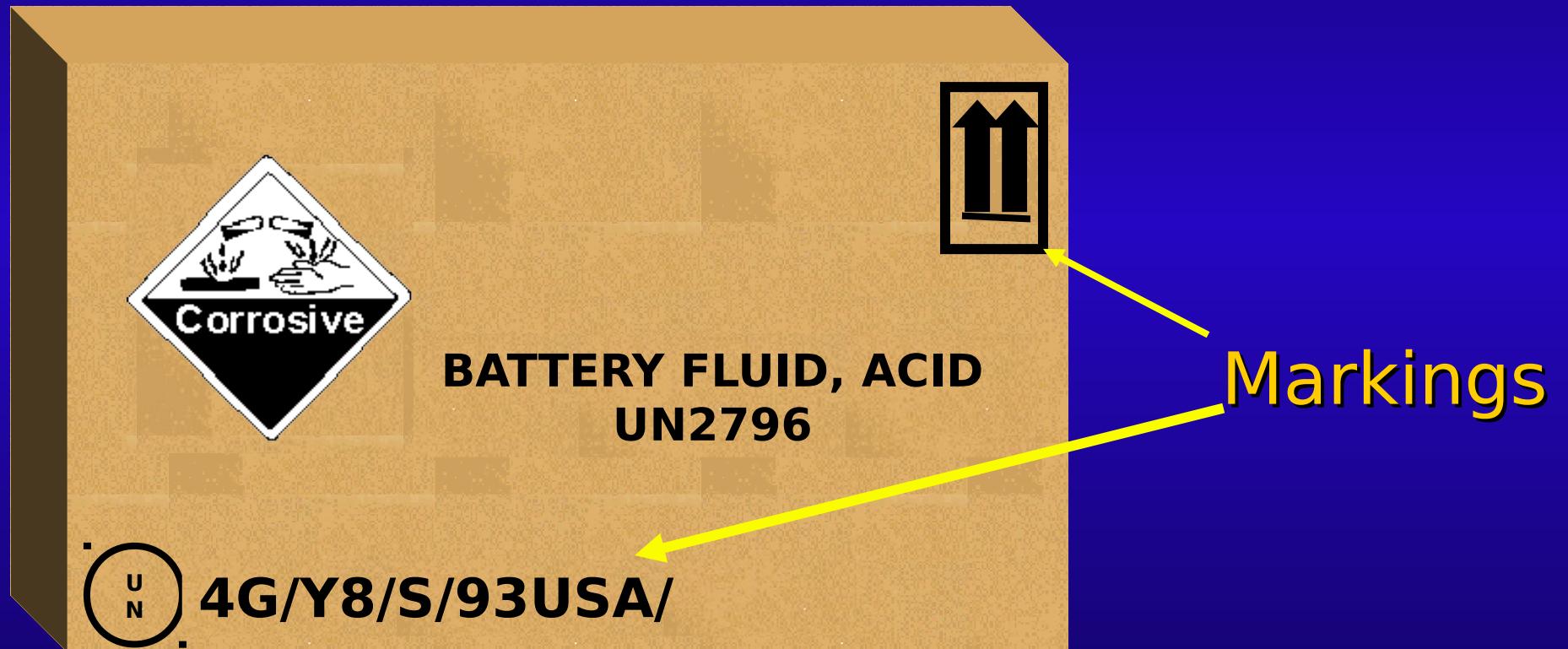
In English

Un-obscured

Sharp contrasting
background

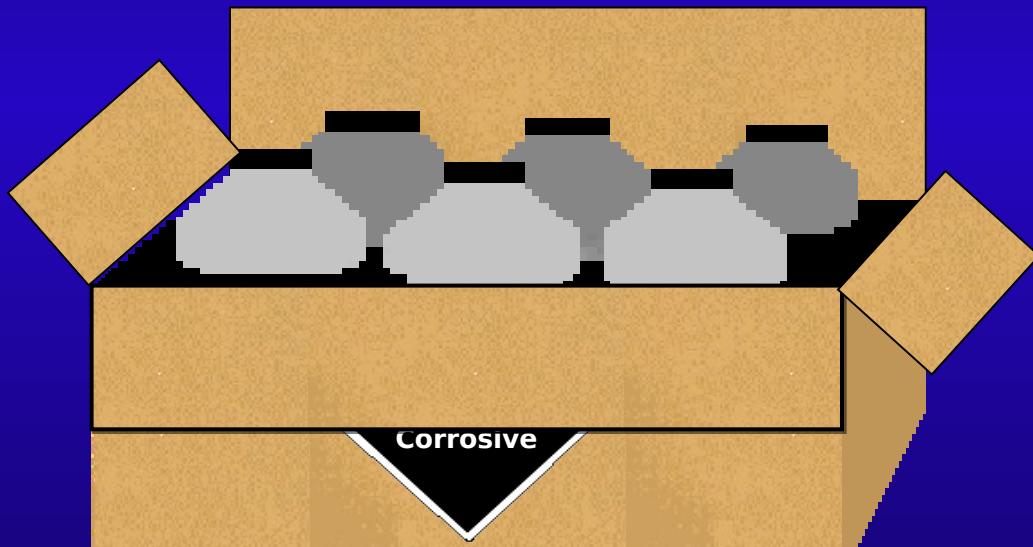
Away from other markings

HAZMAT Marking/Labeling



Liquid Hazardous Material

- Closures in upright position

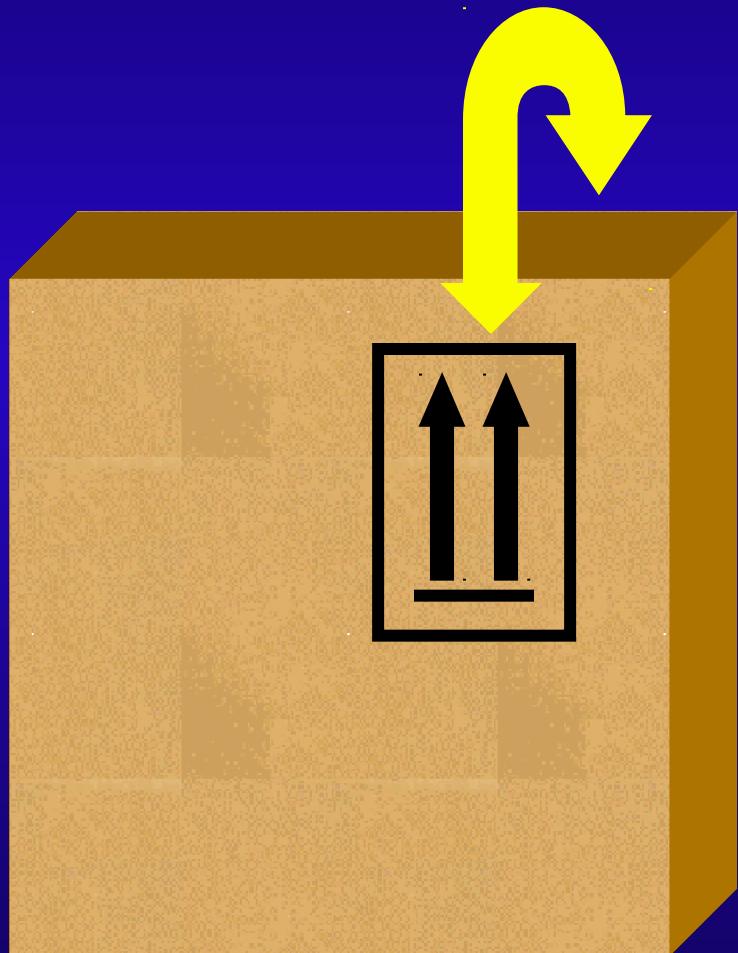


Package



Over pack

Package Orientation Arrows

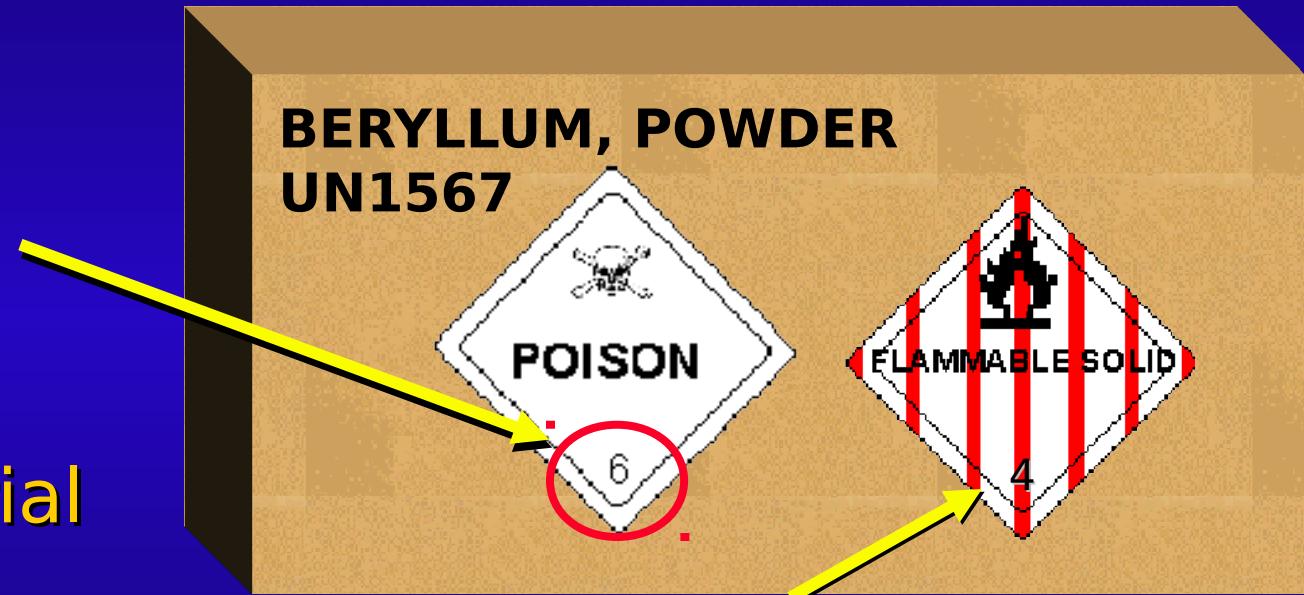


- Orientation arrows must be on two opposite vertical sides oriented in correct upright position

Subsidiary HAZMAT Labeling

- Primary hazard class label with hazard class number

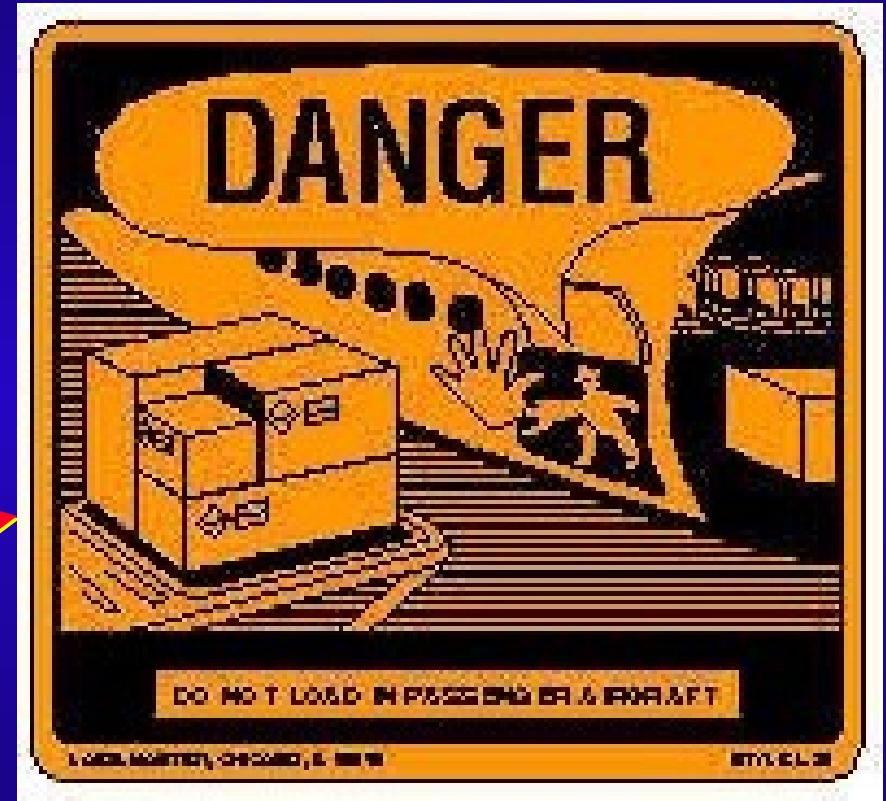
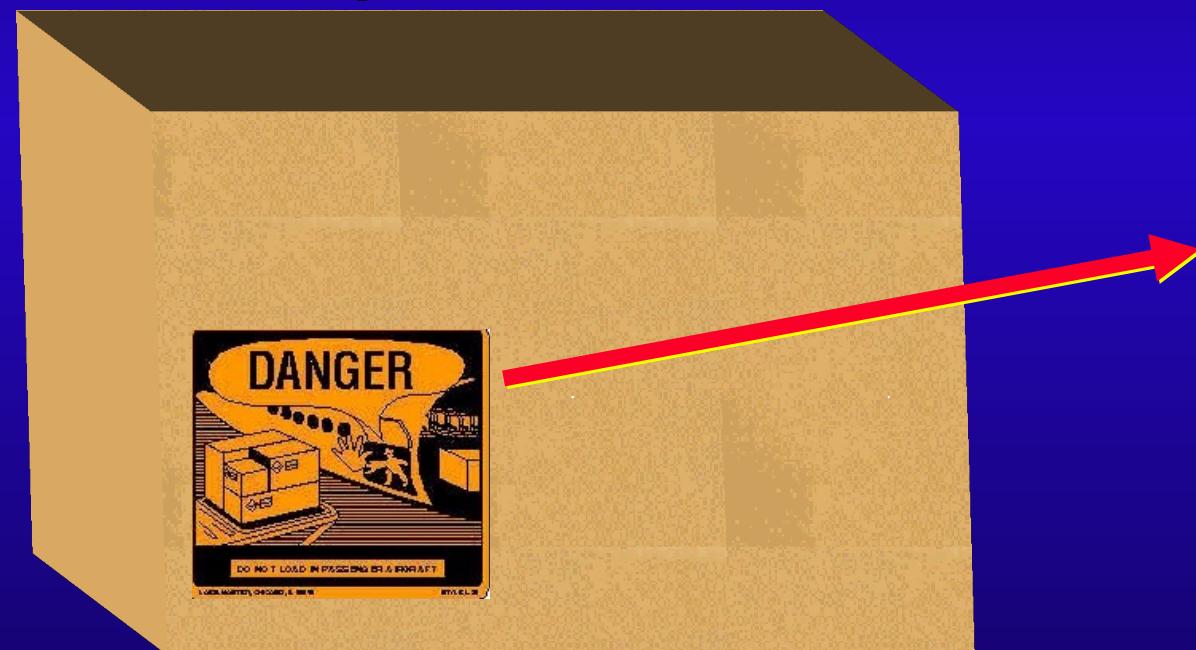
A hazardous material with multiple hazards must have the labels no more than 150mm or 6 inches apart



- Subsidiary hazard class label with hazard class number

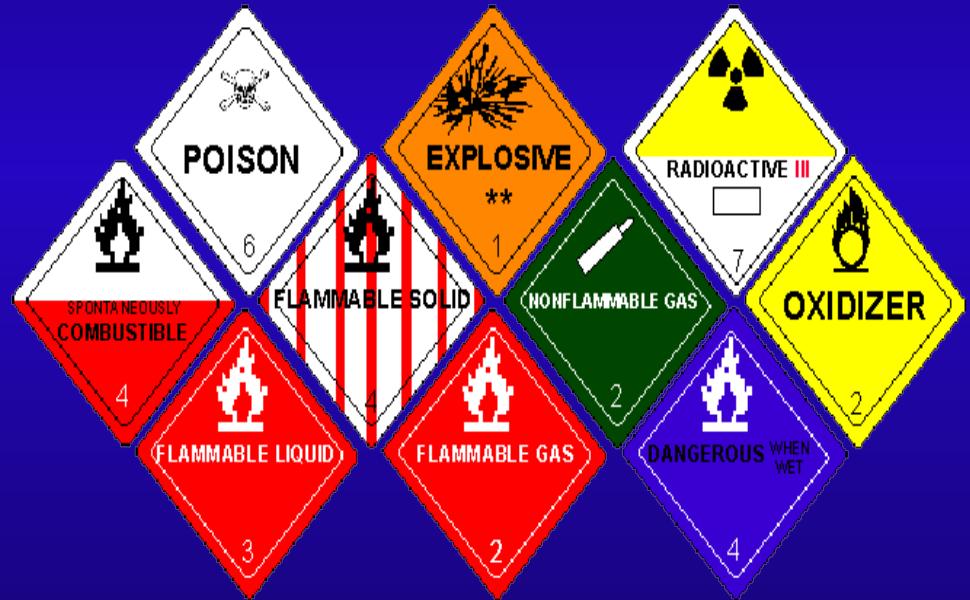
Special Labels

- Cargo aircraft only



Durability of Labels & Placards

- All labels and placards must be capable of withstanding, without deterioration or a substantial reduction in effectiveness, a 30-day exposure to open weather conditions.

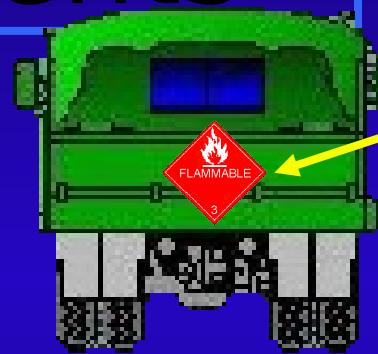


General Placarding Requirements

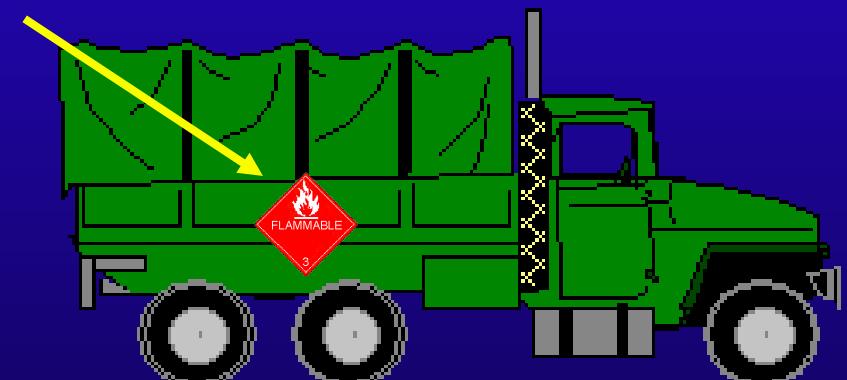
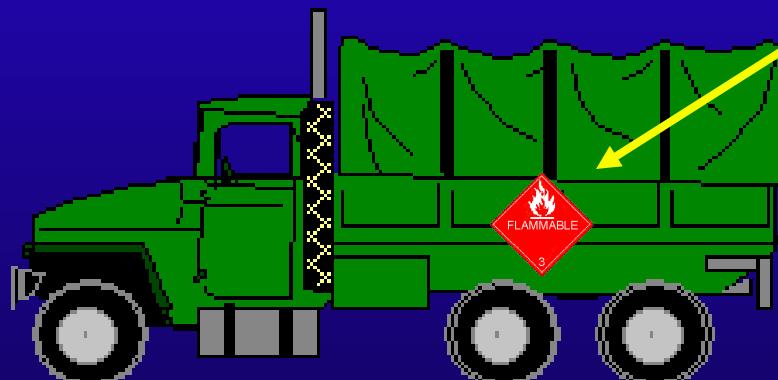
Front



Back



Both sides



Not to scale

Hazardous Material Compatibility

- Packages containing HAZMAT which might react with one another may not be stowed next to each other
- Know the Hazard Identify



Hazardous Material Compatibility (Cont)

- HAZMAT segregated by Hazard Classification
 - Flammable / Combustible
 - Corrosives (acids / bases)
 - Oxidizers
 - Compressed Gases
- Use DLA Inst 4145.11 as a guide



Hazardous Material Compatibility (Cont)

- Incompatible = “unwanted reaction”
- Incompatible mixtures may produce:
 - Heat
 - Fire
 - Explosion
 - Toxic gases/vapors



SUMMARY



On Learnin g



On Learnin

Question 1: Which of the following is not considered a proper shipping name?

- a. Butane b. Pesticides, solid, toxic c.

Rat Bait

Answer 1: C - Rat Bait. B would be the proper shipping name for rat bait.



On Learnin

g

Question 2: When determining placarding requirements, which column of the Hazardous Materials Table Applies?

Answer 2: Column 3 - HAZARD CLASS



Let's
Review



On Review



On Review

Question 1: Where do you find the Federal regulations that govern the shipping of hazardous material?

Answer 1: Title 49, Code of Federal Regulations, (49 CFR)



On Review

Question 2: Which publication provides emergency actions for HAZMAT mishaps?

Answer 2: The **current** Emergency Response Guidebook (**EGR**)



On Review

Question 3: We discussed different tasks a unit must consider when preparing unit HAZMAT for shipment. Where can we find these tasks listed?

Answer 3: Tasks are listed in Appendix D to FM 4-01.011 Unit Movement Operations.



On Review

Question 4: When the term "forbidden" is used when referencing a hazardous material, what are the implications?

Answer 4: The word "forbidden" means that the HAZMAT cannot be offered for transportation in one or more of the modes of transportation being considered.



On Review

Question 5: When the prefix “UN” is used in a HAZMAT identification number, what does it signify?

Answer 5: When a HAZMAT ID number has “UN” contained in the number it means the shipping name and hazardous material is recognized by the UN, and this material can be shipped internationally using this information.



On Review

Question 6: When are two different warning labels placed on a package containing hazardous materials?

Answer 6: When the package contains two different, but compatible hazardous materials.



On Review

Question 7: What does the term “HAZMAT marking” mean?

Answer 7: CFR 49 requires that every package containing HAZMAT be properly marked to convey the presence of the HAZMAT. This includes information such as a descriptive name, ID number, instructions, cautions, and so forth.

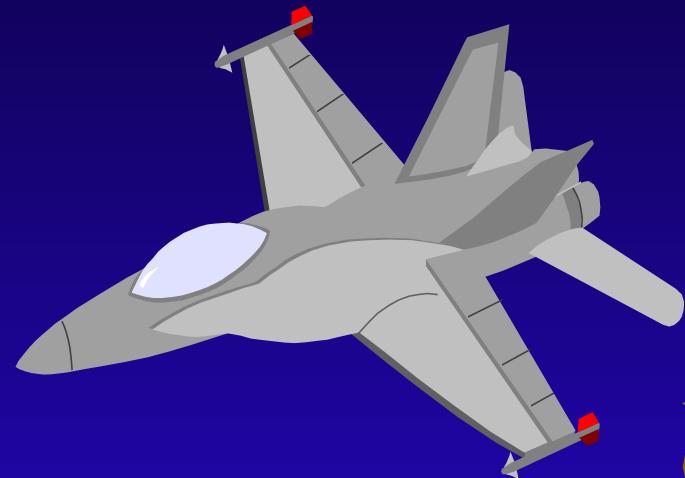
QUESTIONS

???



What's Coming

Break



10 mins